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L33: Entry 1 of 1

File: DWPI

Aug 17, 2000

DERWENT-ACC-NO: 2000-619647

DERWENT-WEEK: 200060

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TITLE: Monitoring temperature of electronic component with losses, especially power , franclate device, involves detecting cooling body or coolant temperature after power loss

change, adding computed difference value

INVENTOR: CORNELIUS, P

PATENT-ASSIGNEE:

ASSIGNEE CODE TRW AUTOMOTIVE ELECTRONICS & COMPONENTS THOP

PRIORITY-DATA: 1998DE-1052080 (November 11

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE **PAGES** MAIN-IPC

DE 19852080 C1 August 17, 2000 009 G01K003/08

APPLICATION-DATA:

PUB-NO APPL-DATE APPL-NO DESCRIPTOR

DE 19852080C1 November 11, 1998 1998DE-1052080

INT-CL (IPC): GO1 K 3/08; HO1 L 23/34; HO5 K 7/20

ABSTRACTED-PUB-NO: DE 19852080C

BASIC-ABSTRACT:

ds object

NOVELTY - The method involves detecting the temperature (Tmess) of the cooling body or coolant at a detection point that reaches equilibrium temperature after a change in power loss with a time constant greater than that with which the component reaches its equilibrium temperature The temperature of the component is determined by the addition of a temperature difference value to the detected temperature The difference value is computed using a pre-existing relationship to the power loss or on power loss and the time difference after a change in power loss.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an arrangement for monitoring the temperature of an electronic component with losses, especially a power semiconductor.

USE - For monitoring the temperature of an electronic component with losses, especially a power semiconductor, that is cooled with a cooling body or coolant.

181 ADVANTAGE - A highly accurate temperature measurement is achieved with economically priced sensors and the sensor mounting costs can be kept low.

DESCRIPTION OF DRAWING(S) - The drawing shows a graphical representation of a method of monitoring the temperature of an electronic component

temperature at detection point Tm ess

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8/9/02 12:04 PM

Record Display Form

temperature difference proportional to power loss deltaT2

CHOSEN-DRAWING: Dwg.3/4

TITLE-TERMS: MONITOR TEMPERATURE ELECTRONIC COMPONENT LOSS POWER DEVICE DETECT COOLING BODY COOLANT TEMPERATURE AFTER POWER LOSS CHANGE ADD COMPUTATION DIFFER VALUE

DERWENT-CLASS: S03 U11 V04

EPI-CODES: S03-B01C; U11-D02D1; V04-T03;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-459181